#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



### 

## (43) International Publication Date 20 March 2003 (20.03.2003)

**PCT** 

# (10) International Publication Number WO 2003/023179 A3

(51) International Patent Classification7: E21B 43/10

(21) International Application Number:

PCT/US2002/025727

(22) International Filing Date: 14 August 2002 (14.08.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/317,985 60/318,386 6 September 2001 (06.09.2001) US 10 September 2001 (10.09.2001) US

- (71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WADDELL, Kevin

[US/US]; 11007 Sprucedale Court, Houston, TX 77070 (US). RING, Lev [RU/US]; 14126 Heatherhill Place, Houston, TX 77077 (US). BRISCO, David, PAUL [US/US]; 405 Westridge Drive, Duncan, OK 73533 (US).

- (74) Agents: MATTINGLY, Todd; et al.; Haynes and Boone, LLP, 1000 Louisiana Street, Suite 4300, Houston, TX 77002-5012 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: SYSTEM FOR LINING A WELLBORE CASING

30d 30e 30c 30c 30c 30c 30c 30a 28c 28b 28 28a 28b 28 28a 26c 24d 24c 24c 24c 24c 24c 24c 24c 24c 24c 26c 16d 16e 15b 16c 16c 16c 18a 18a 18a

(57) Abstract: A system for lining a wellbore casing.

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/25727

		PC1/US02	125121
A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : E21B 43/10			
US CL : 166/380, 207			
According to	International Patent Classification (IPC) or to both na	tional classification and IPC	
B. FIELDS SEARCHED			
Million Land Charles Communication Communica			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 166/380, 207, 378, 212, 217, 242.6			
·			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
<b>.</b>			
<b>!</b>			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	propriate, of the relevant passages	Relevant to claim No.
X	US 6,070,671 A (CUMMING et al.) 06 June 2000 (		13-15,17,18,21-23,25-
	31, and 33		
х	US 6,085,838 A (VERCAEMER et al.) 11 July 2000 (11.07.00), figures 5-7. 1,4-7,11-19, and 2		
^	03 0,003,036 A (VENCALIMER CI 41.) 11 July 2000 (11.07.00), figures 3-7.		1,4-7,11-19, and 21-33
₹.	CVI 100C110 A (CLADYCOVD 16 A		10.5.5.5.5.5.
Х	SU 1086118 A (GARIFOV) 15 April 1984 (15.04.84), figures 1 and 2.		13-15,17-23,25-31, and
			33-36
			]
			1 1
			[
			i ·
			,
			·
Frenchise	dearments are listed in the continuation of Day C	Soo material formily among	
Further documents are listed in the continuation of Box C. See patent family annex.			
<ul> <li>Special categories of cited documents:</li> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the</li> </ul>			
*A" documen	defining the general state of the art which is not considered to be		
	document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance		
•		"X" document of particular releva	nce; the claimed invention cannot be
"E" carlier ap	plication or patent published on or after the international filing date		e considered to involve an inventive step
"L" document	when the document is taken alone  L* document which may throw doubts on priority claim(s) or which is cited to		
	the publication date of another citation or other special reason (as	"Y" document of particular releva	nce; the claimed invention cannot be
specified)		considered to involve an inve	intive step when the document is
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more of being obvious to a person ski	other such documents, such combination
O GOCALIEM	retering to an oral discissare, ass, extremely or other manus	bong obvious to a person and	ind in the at
"P" document published prior to the international filing date but later than the "&" document member of the same patent family			ne patent family
priority date claimed			
Date of the actual completion of the international search		Date of mailing of the international search report	
07 October 2002 (07.10.2002)			8 FEB 2004.
Name and mailing address of the ISA/US		Anthorized officer	Mp
Commissioner of Patents and Trademarks			<i>U4</i>
	PCT	Radits Control	1
Washington, D.C. 20231 Facsimile No. (703)305-3230 Telephone No. (703) 308-1113			
Talismine 140. (703):503-3230			

Form PCT/ISA/210 (second sheet) (July 1998)